

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): David C. Collins et al.

Confirmation No.:

Application No.:

Examiner:

Filing Date: herewith

Group Art Unit:

Title: GENERATING AND DISPLAYING SPATIALLY OFFSET SUB-FRAMES

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)

under 37 CFR 1.97(c) together with either a:
 Statement under 37 CFR 1.97(e), or
 a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)

under 37 CFR 1.97 (d) together with a:
 Statement under 37 CFR 1.97(e)(1) or (2), and
 a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. **ER314293639US**

Respectfully submitted,

Date of Deposit Apr. 8, 2004

David C. Collins et al.

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By

Christopher P. Kosh

By Denyse Dauphinais
Typed Name: Denyse Dauphinais

Attorney/Agent for Applicant(s)
Reg. No. **42,760**

Date: Apr. 8, 2004

PATENT APPLICATION

Sheet 1 of 3

FORM PTO-1449		ATTY. DOCKET NO. 200400517-1	APPLICATION NO.	CONFIRMATION NO.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT David C. Collins et al.		
(Use several sheets if necessary)		FILING DATE Herewith	GROUP	

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	4,373,784	Feb. 1983	Nonomura et al.	
	1B	4,662,746	May 5, 1987	Hornbeck	
	1C	4,811,003	Mar. 1989	Strathman et al.	
	1D	4,956,619	Sep. 11, 1990	Hornbeck	
	1E	5,061,049	Oct. 29, 1991	Hornbeck	
	1F	5,083,857	Jan. 28, 1992	Hornbeck	
	1G	5,146,356	Sep. 1992	Carlson	
	1H	5,317,409	May 1994	Macocs	
	1I	5,490,009	Feb. 6, 1996	Venkateswar et al.	
	1J	5,557,353	Sep. 1996	Stahl	
	1K	5,689,283	Nov. 18, 1997	Shirochi	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L	EP 1001306A2	May 17, 2000	Olympus Optical Co.,		X
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	L.M. Chen and S. Hasagawa, "Visual Resolution Limits for Color Matrix Displays", "One Panel Projectors" Displays, Technologies, and Applications, Vol. 13, pp. 221-226, 1992.
1R	A. Yasuda et al., "FLC Wobbling for High-Resolution Projectors", Journal of the SID 5/3 1997, pp. 299-305.
1S	T. Tokita et al., "P-108: FLC Resolution-Enhancing Device for Projection Displays", SID 02 Digest 2002, pp. 638-641.

EXAMINER

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		FILING DATE	GROUP	
		Herewith		

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
2A	5,912,773	Jun. 1999	Barnett et al.	
2B	5,920,365	Jul. 1999	Eriksson	
2C	5,953,148	Sep. 1999	Moseley et al.	
2D	5,978,518	Nov. 2, 1999	Oliyide et al.	
2E	6,025,951	Feb. 15, 2000	Swart et al.	
2F	6,067,143	May 2000	Tomita	
2G	6,104,375	Aug. 15, 2000	Lam	
2H	6,118,584	Sep. 2000	Van Berkel et al.	
2I	6,141,039	Oct. 31, 2000	Poetsch	
2J	6,184,969	Feb. 6, 2001	Fergason	
2K	6,219,017	Apr. 17, 2001	Shimada et al.	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	2L					
	2M					
	2N					
	2O					
	2P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

2Q	D.H. Kelly, "Motion and Vision - II. Stabilized Spatio-Temporal Threshold Surface," Journal of the Optical Society of America, Vol. 69, No. 10, October 1979.
2R	Candice H. Brown Elliot et al., "Color Subpixel Rendering Projectors and Flat Panel Displays"; SMPTE Advanced Motion Imaging Conference; February 27-March 1, 2003; pgs. 1-4.
2S	Diana C. Chen, "Display Resolution Enhancement with Optical Scanners" Applied Optics, Vol. 40, No. 5, February 10, 2001, pp. 636-643.

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EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
3A	6,239,783	May 29, 2001	Hill et al.	
3B	6,243,055	Jun. 5, 2001	Fergason	
3C	6,313,888	Nov. 6, 2001	Tabata	
3D	6,384,816	May, 6, 2002	Tabata	
3E	6,393,145	May 21, 2002	Betrisey et al.	
3F	6,522,356	Feb. 2003	Watanabe	
3G	2003/0020809	Jan. 30, 2003	Gibbon et al.	
3H	2003/0076325	Apr. 2003	Thrasher	
3I	2003/0090597	May 15, 2003	Katoh et al.	
3J				
3K				

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3Q	
3R	
3S	

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